



Lime and Limestone products

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TECHNICAL DATA SHEET

HIGH CALCIUM LIME KILN DUST

Nominal size: 0 – 1.25 mm**PRODUCTION FACILITY:** Cricket Mountain Plant – Delta, Utah**PRODUCT DESCRIPTION:**

Co-product from the calcination of high-purity limestone. It is composed essentially of calcium carbonate (CaCO_3), calcium oxide (CaO) and silica (SiO_2).

COMPOSITION AND TYPICAL CHEMICAL PROPERTIES: (ASTM C25, C1271, C1301)

Total Calcium as Calcium Oxide (CaO), (%)	62.5
Total Calcium (Ca), (%)	44.6
Available Lime Index as Calcium Oxide (CaO), (%)	29.1
Total Magnesium as Magnesium Oxide (MgO), (%)	2.3
Total Magnesium (Mg), (%)	1.4
Silica (SiO_2), (%)	14.0
Ferric Oxide (Fe_2O_3), (%)	1.2
Alumina (Al_2O_3), (%)	3.3
Total Sulfur (S), (%)	0.9
Total Carbon (C), (%)	3.7
Loss on Ignition, (%)	13.2
Calcium Carbonate, (CaCO_3), (%)	30.5
Neutralizing Value ($\text{CaCO}_3 = 100$), (%)	120

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Div. of Oil, Gas & Mining

TYPICAL PHYSICAL PROPERTIES:

Nominal size (mm)	0 – 1.25
Bulk Density (ASTM C110), (kg/m ³)	1050 – 1525
(lbs/ft ³)	66 – 95

CLASSICAL REFERENCE DATA : (CRC Handbook of Chemistry and Physics)

Specific Gravity	2.7 – 3.4
Solubility in Water (10 °C), (g/l)	1.31
pH (saturated solution) (25 °C)	12.454

SIZE DISTRIBUTION:

<u>Sieve (mm)</u>	<u>Sieve (U.S.A.)</u>	<u>% Passing</u>
2.00	No. 10	100
1.25	No. 16	85 – 100
0.600	No. 30	75 – 100
0.300	No. 50	70 – 100
0.150	No. 100	65 – 100
0.075	No. 200	40 – 95
0.045	No. 325	20 – 85

NOTICE:

* The test data herein is based on average results on production samples. Product shipments are subject to normal variation. Accordingly, test data cannot be taken as establishing maximum or minimum specifications.